

1 ^{Sub}_{ent} 6. (Amended) A method for controlling a valve comprising the steps of:
2 providing a gas controller;
3 providing a mold cavity;
4 providing a regulator body having an inlet in fluid communication with said
5 gas controller, an outlet in fluid communication with said mold cavity, a vent for
6 exhausting gas from said mold cavity and a piston mounted for reciprocal movement
7 between a first position wherein said vent is closed and a second position wherein said
8 vent is open;
9 providing a check valve disposed between and in fluid communication with
10 said inlet and said outlet of said regulator body, said check valve being biased in a
11 closed position and having an open position that permits a fluid to flow from said inlet
12 to said outlet;
13 supplying a fluid from said gas controller at a first pressure to said gas inlet,
14 said first pressure being sufficient to place said check valve in said open position such
15 that fluid is communicated to said outlet and said mold cavity and to move said piston
16 to said first position;
17 venting a fluid from said gas controller at a second pressure that is lower than
18 said first pressure to said gas inlet such that said check valve is placed in said closed
19 position and said fluid in said mold cavity at said first pressure operates to move said
20 piston toward said second position to open said vent and exhaust said fluid from said
21 mold cavity.